

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named  
Inventor : Chang-Ning Huang et al.

Appln. No. : 10/662,602

Filed : September 15, 2003

For : CHINESE WORD SEGMENTATION

Docket No.: M61.12-0514

Group Art Unit:

Examiner:

**INFORMATION DISCLOSURE STATEMENT**

**VIA ELECTRONIC FILING  
SYSTEM (EFS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The patents or publications listed on the enclosed PTO Form-1449 are submitted pursuant to 37 C.F.R. § 1.97. Copies of the patents or publications cited are enclosed, except as waived by the Official Gazette notice of August 5, 2003 regarding copies of US Patents and Publications.

**TIME OF FILING**

The information disclosure statement is being filed:

1. ☐ 1. Within three month of the filing date of a  
national application other that a Continued  
Prosecution Application (CPA);
  2. Within three months of the date of entry of the National Stage international  
application;
  3. Before the mailing date of a first Office Action on the merits; or
  4. Before the mailing of a first Office Action after the filing of a Request for  
Continue Examination (RCE).
- 
2. ☒ after the time period specified in paragraph 1 above, but before the mailing date of a final  
action under 37 C.F.R. § 1.113 or notice of allowance under 37 C.F.R. § 1.311.  
Therefore, in accordance with 37 C.F.R. § 1.97(c), submitted herewith is:

(check either A or B below)

- A. ☐ a statement as specified in 37 C.F.R. § 1.97(e).  
B. ☒ the fee set forth in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c).

3. ☐ after the mailing date of either a final action under 37 C.F.R. § 1.113 or a notice of allowance under 37 C.F.R. § 1.311, whichever occurs first, but before payment of the issue fee. Therefore, Applicant petitions for consideration and submits herewith:  
A. a statement as specified in 37 C.F.R. § 1.97(e);  
B. the petition fee set forth in 37 C.F.R. § 1.17(p).

#### STATEMENT

(only used if No. 2(A) or No. 3 above is checked)

The person(s) signing below certify

(check appropriate paragraph)

☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. § 1.97(e)(1).

OR

☐ that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. § 1.97(e)(2).

### METHOD OF PAYMENT

- ☐ No fee is required.
- ☒ EFS payment in the amount of \$ 180.00.

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

WESTMAN, CHAMPLIN & KELLY, P.A.

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TRF:jmb

<b>FORM PTO-1449</b>	Atty. Docket No.: <b>M61.12-0514</b>	Appl. No.:
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor:	
	<b>Chang-Ning Huang</b>	
	Filing Date	Group Art:
	<b>September 15, 2003</b>	

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA	5,946,648	08/1999	Halstead et al.			
AB						
AC						

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
AD						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AG	J. Gao, M. Li and CN Huang "Improved source-channel models for Chinese word segmentation" 41nd Annual Meeting of the Association for Computational Linguistics, July 2003
AH	K. Lee and M. Schulze "A rule-based analysis from raw Korean text to morphologically annotated corpora" Language and Information Vol. 6, December 2002
AI	K. Uchimoto, S. Sekine and H. Isahara "The Unknown Word Problem: a Morphological Analysis of Japanese Using Maximum Entropy Aided by a Dictionary" Proceedings of the Conference on Empirical Methods, June 2001
AJ	R. Sproat and C. Shih "Corpus-based methods in Chinese morphology and phonology" <a href="http://citeseer.ist.psu.edu/696158.htm">http://citeseer.ist.psu.edu/696158.htm</a> , 2001
AK	J. Gao, M. Li, A. Wu and CN Huang "Chinese word segmentation and named entity recognition: a pragmatic approach" Computational Linguistics, Vol. 31, No. 4, December 2005
AL	European Search Report, January 22, 2007, 4 pages
AM	
AN	

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.